

ABSTRACT

The major components are a primary winding 12
5 connected to a high-voltage, a large-current power supply 1,
a secondary winding 14 connected to an electromagnetic
forming coil 2, and a magnetic core 16 for guiding the
magnetic flux produced by the primary winding. The
magnetic core 16 is composed of a primary core 16a on which
10 the primary winding is wound and a secondary core 16b on
which the secondary winding is wound. The primary core and
the secondary core are magnetically connected together by
putting them in contact or in close proximity. And the
primary core and the secondary core are separated each
15 other when the connector is disconnected. Thus, current
pulses at a high voltage (for instance, 10 kV) with a large
current (for example, 100 kA or more) and a narrow pulse
width (e.g., 30 μ sec or less) can be efficiently
transmitted, and the connector can be easily attached and
20 removed.